

**ABSTRACT**

A method and apparatus for treating an exhaust gas containing a fluorine compound. A method according to the present invention includes heating the exhaust gas in the presence of  $O_2$ , and then adding  $H_2O$  to the exhaust gas to decompose or oxidize the fluorine compound. An apparatus according to the present invention includes a heating section for heating the exhaust gas, an exhaust gas supply for supplying the exhaust gas to the heating section, an  $H_2O$  adding section located just downstream of the heating section for adding  $H_2O$  to the exhaust gas by supplying  $H_2O$  or  $H_2$  to the exhaust gas; and an acid gas removal section for removing an acid gas produced by a reaction between the exhaust gas and  $H_2O$ .